Micro- and nano-plastics:
identifying key research needs for environmental and human health assessment

Miao Peng Colin Janssen Jana Asselman

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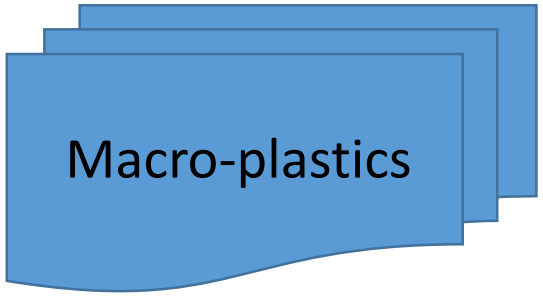
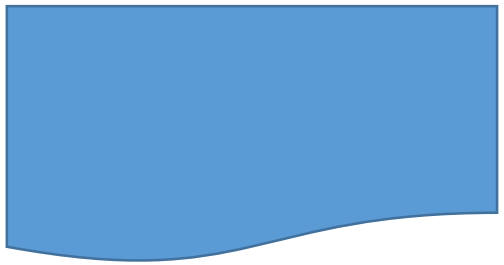
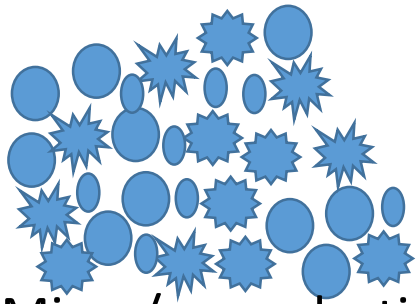
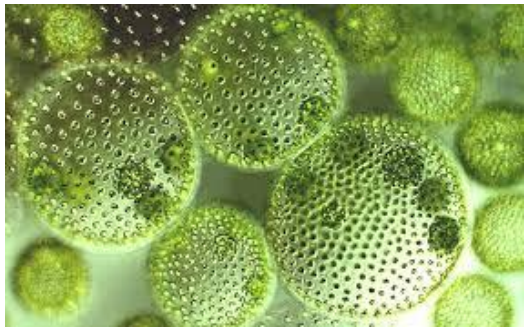


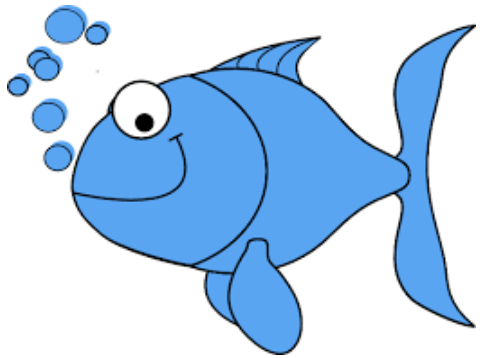


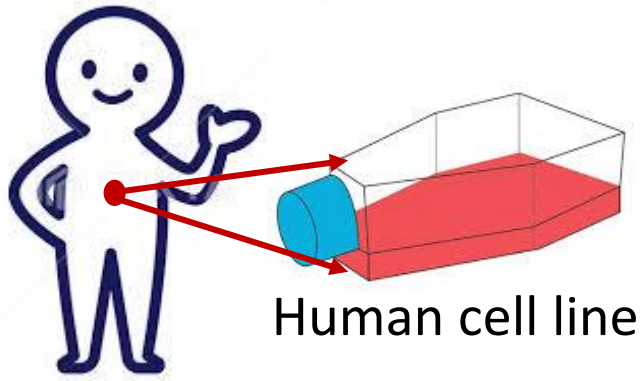


Micro/nanoplastics

Mechanical abrasion, hydrolysis, biodegradation and UV photodegradation







Human cell lines

Micro/nanoplastics transfer via food chains

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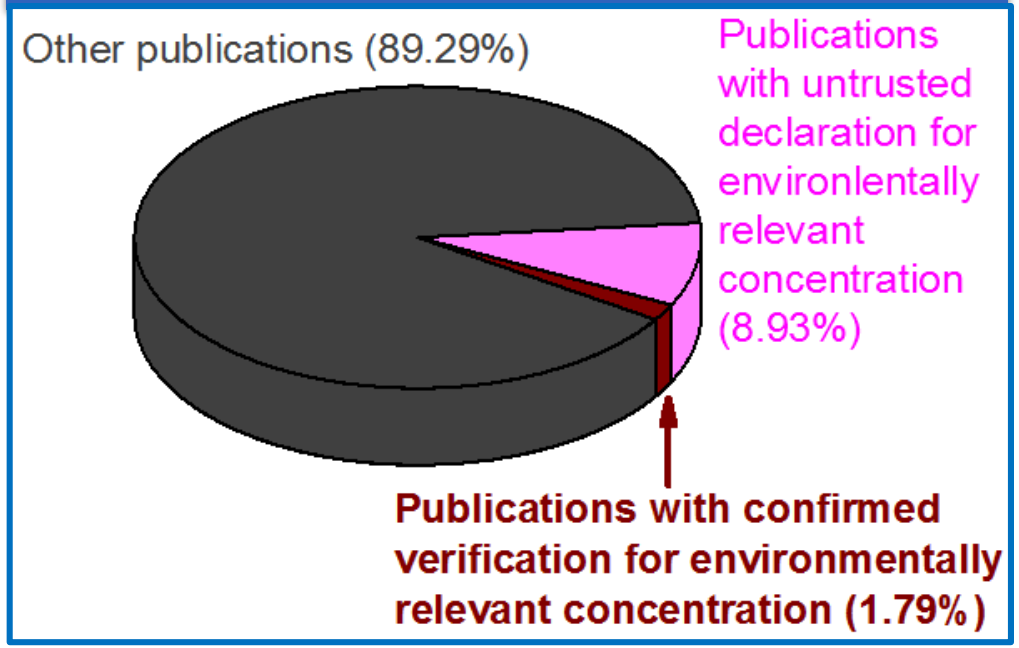
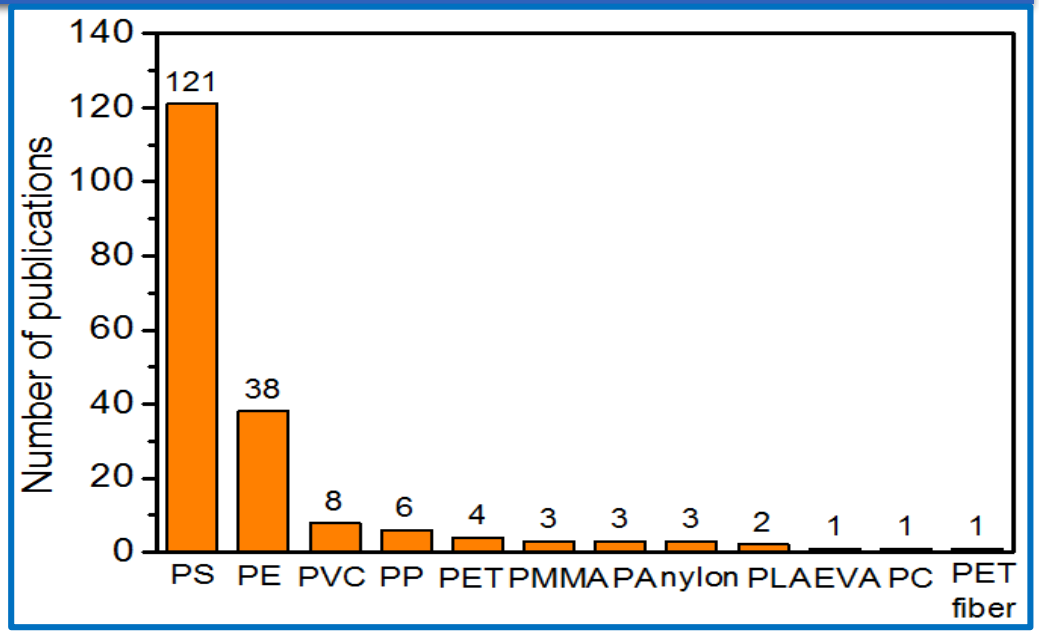
Key research gaps:

(1) Use of environmentally relevant concentrations.



(2) The effects of diverse shapes, sizes and plastic composition of the particles on (test) organisms.



Bridging these knowledge gaps will be crucial to determine the impact of micro- and nano-plastics on human and environmental health.

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